PRODUCT DATA SHEET

Published: 2026-11-26

LAUDA Ultratemp UT 2505 W Process thermostat
400 V; 3/PE; 50 Hz & 460 V; 3/PE; 60 Hz
Part Number: L004023

Features



- Process thermostat with integrated heater
- Graphic LCD with clear text menu navigation
- Operation possible via web server
- Integrated Ethernet interface
- Connection external Pt100 temperature sensor
- Fully electronic continuous controller with PID action
- Protection level IP 54 (for outdoor installation)
- Stainless steel housing
- Industrial block pump with high pressure and high flow rate
- Additional pump for internal circulation
- Digital display of pump pressure
- Operates with non flammable liquids (water,water/glycol)
- Integrated water filter
- Utilises traditional refrigerants (HFCs) in accordance with European legislation to control F-gases (EU) 573/2024
- Condenser cooling Water
- Certification according to UL 60335:2023, CSA 22.2 No. 60335 Ed. 2nd

Working temperature min.
-5 °C

Working temperature max.
60 °C

Reserve technical changes

LAUDA DR. R. WOBSER GMBH & CO. KG
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WEEE-Reg-Nr.: DE 66 42 40 57

Kommanditgesellschaft: Sitz Lauda-Königshofen
Registergericht Mannheim • HRA 560069

Persönlich haftende Gesellschafterin:
LAUDA DR. R. WOBSER Verwaltungs-GmbH
Sitz Lauda-Königshofen
Registergericht Mannheim • HRB 560226

Geschäftsführer:
Dr. Gunther Wobser (Vors.),
Dr. Marc Stricker
Beirat: Dr. Gerhard Wobser

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Technical Features	
Working temperature range	-5 ... 60 °C
Ambient temperature range	-15 ... 50 °C
Temperature stability	0.5 ± K
Heater power max.	35 kW
Pump Pressure max. 50 Hz	3.2 bar
Pump pressure nominal 50 Hz	3 bar
Flow rate max. (pressure) 50 Hz	250 L/min
Pump pressure max. 60 Hz	4.6 bar
Flow rate max. (pressure) 60 Hz	300 L/min
Pump pressure nominal 60 Hz	4.4 bar
Pump flow rate nominal	90 L/min
In / Outlet connection thread (inside)	Rp 1 1/2
Water cooling connection thread (inside)	Rp 1 1/2
Filling volume max.	100 L
Cooling water temperature min.	0 °C
Cooling water temperature max.	45 °C
Pressure difference cooling water min.	2 bar
Maximum pressure cooling water	6 bar
Cooling water consumption	60.6 L/min
Refrigerant stage 1	R-407C (GWP 1770); 2.500 kg; 4.4 t CO2-eq
Protection rating	IP 54
Overall dimensions (WxDxH)	1138 x 1486 x 1792 mm
Weight	565 kg
Power plug	---
Power supply	400 V; 3/PE; 50 Hz & 460 V; 3/PE; 60 Hz
Current max.	80 A

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Temperature	Cooling Capacity 50 Hz	Cooling Capacity 60 Hz
60 °C	29.8 kW	35.1 kW
30 °C	29.8 kW	35.1 kW
20 °C	25.8 kW	30.3 kW
15 °C	22.2 kW	26.1 kW
10 °C	19.1 kW	22.4 kW
5 °C	15.9 kW	18.7 kW
0 °C	13.8 kW	16.2 kW
-5 °C	11 kW	12.9 kW

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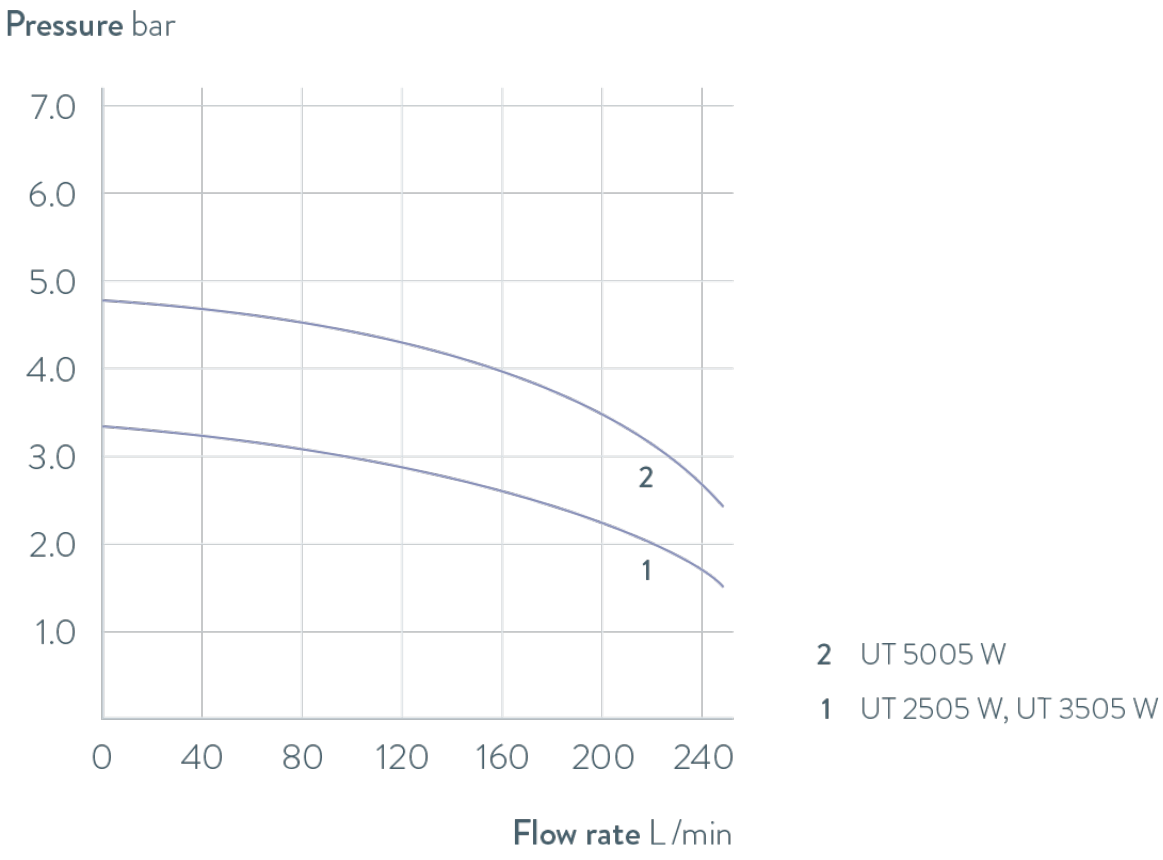
PUMP CHARACTERISTICS 50 Hz Heat transfer liquid: Water



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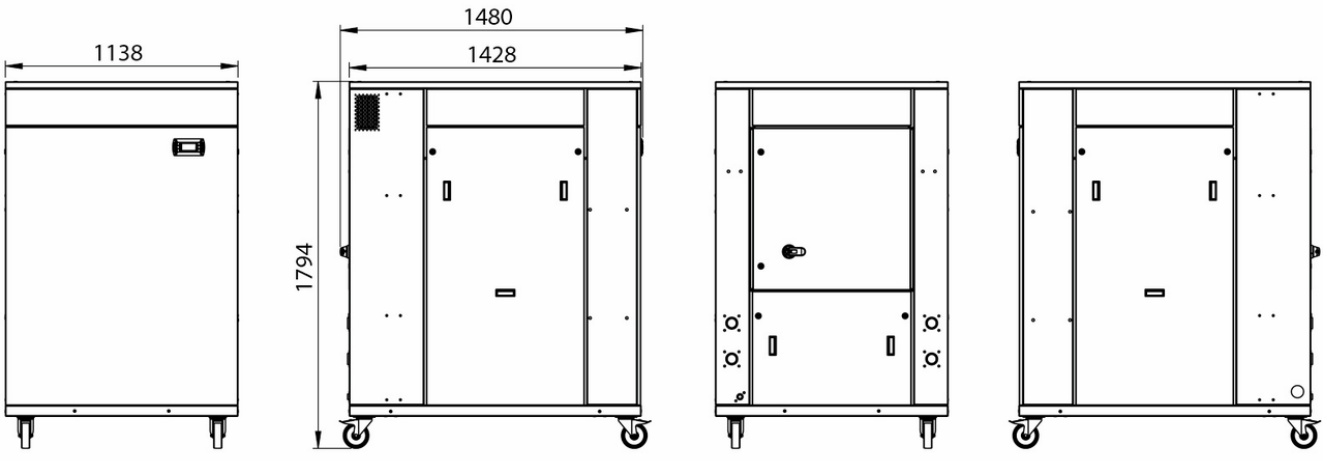

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